Attorney Docket No. Q56523

AMENDMENT UNDER 37 C.F.R. § 1.111 APPLICATION NO.: 09/472,954

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

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1. (currently amended): A pixel signal correction method for correcting <u>output</u> pixel signals output from a solid-state detector which detects visible light or radiation and obtains pixel signals each representing a signal value of each a pixel,

wherein said correction is made so that the signal value of each pixel is set at a saturation level when light or radiation is projected onto said solid-state detector at a level at which the highest one of the output pixel signals before the correction reaches the saturation level., when light or radiation at which one of the output pixel signals is at the saturation level is projected onto said solid state detector, all the pixel signals are a maximum value which can be taken as the signal value.

2. (currently amended): A pixel signal correction method for correcting <u>output pixel</u> signals output from a solid-state detector which detects visible light or radiation and obtains pixel signals each representing a signal value of <u>each a pixel</u>,

wherein the <u>a</u> greatest pixel signal value of the <u>output</u> pixel signals <u>is determined</u> when light or radiation <u>is projected onto said solid-state detector</u>, at <u>a level at</u> which any one of the <u>output</u> pixel signals of said detector <u>before the correction</u> is at a level lower than the <u>a</u> saturation level, <u>is projected onto said solid state detector is determined</u>, and for each of said pixel signals,

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and said correction is made for each of said output pixel signals so that the signal value of each pixel exceeds is set at a value which is equal to or greater than said greatest pixel signal value.

3. (currently amended): A pixel signal correction device which corrects <u>output</u> pixel signals output from a solid-state detector which detects visible light or radiation and obtains pixel signals each representing a signal value of <u>each-a pixel</u> comprising:

an irradiating means which irradiates said solid-state detector with light or radiation-at which one of the pixel signals of said detector is at the saturation level; and

<u>a</u> correcting means which makes said correction so that all the pixel signal values the signal value of each pixel is set at a saturation level in the state where light or the irradiation is provided at a level at which any the highest one of said output pixel signals before the correction reaches the saturated level, are a maximum which can be taken as the signal value.

4. (currently amended): A pixel signal correction device which corrects <u>output</u> pixel signals output from a solid-state detector which detects visible light or radiation and obtains pixel signals each representing a signal value of each a pixel comprising:

an irradiating means which irradiates said solid-state detector with light or radiation-at which any one of the pixel signals is at a level lower than the saturation level; and

a correcting means which determines the a greatest pixel signal value of the output pixel signals in the state where light or the irradiation is provided at a level lower than said at which any one of the output pixel signals before correction is at a level lower than a saturation level, and for each of the pixel signals, and said correction is made for each of the output pixel signals

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so that the signal value of each pixel exceeds-is set at a value which is equal to or greater than

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said greatest pixel signal value.

5. (original): A pixel signal correction device as defined in Claim 3 or 4 wherein said

solid-state detector comprises a first electrode layer, a photoconductive recording layer which

shows conductivity its recording light, upon exposure photoconductive read-out layer which

shows conductivity upon its exposure to reading light, and a second electrode layer provided

with a stripe electrode consisting of a number of linear electrodes.

6. (currently amended): A pixel signal correction device as defined in Claim 3 or 4

wherein said solid-state detector comprises a first electrode layer provided with a first stripe

electrode consisting of a number of linear electrodes, a photoconductive recording layer which

shows conductivity upon its exposure to recording light, an electric storing portion for storing

electric charges generated in said photoconductive recording layer, a photocunductive

photoconductive pre-exposure layer which shows conductivity upon its exposure to pre-exposure

irradiation for uniformly charging said storing portion, and a second electrode layer provided

with a second stripe electrode consisting of a number of linear electrodes arranged to cross with

said linear electrodes of said first stripe electrode, said layers and portion being disposed in the

above order.

7. (original): A pixel signal correction device as defined in Claim 3 or 4 wherein said

solid-state detector comprises a first electrode provided layer with first stripe electrode consisting

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of a number of linear electrodes, a photoconductive recording layer which shows conductivity upon its exposure to pre-exposure light and recording light, an electric storing portion storing electric for said charges generated photoconductive recording layer, a dielectric layer, and a second electrode layer provided with a second stripe electrode consisting of a number of linear electrodes arranged to cross with said linear electrodes of said first stripe electrode, said layers and portion being disposed in the above order.

- 8. (original): A pixel signal correction device as defined in Claim 3 or 4 wherein said solid-state detector comprises first electrode layer provided with first stripe electrode consisting of a number of linear electrodes, a photoconductive recording layer which shows conductivity upon its exposure to recording light, an electric storing portion for storing electric charges generated in said photoconductive recording layer, a rectifying layer, and a second electrode layer provided with a second stripe electrode consisting of a number of linear electrodes arranged to cross with said linear electrodes of said first stripe electrode, said layers and portion being disposed in the above order.
- 9. (currently amended): A solid-state detector which detects visible light or radiation and obtains pixel signals each representing a signal value of each a pixel comprising:

a correcting means which corrects the <u>output</u> pixel <u>signals signal output</u> from said detector so that <u>the signal value of each pixel is set at a saturation level when light or radiation is projected on said detector at a level at which the highest one of the output pixel signals before the correction reaches the saturation level all the pixel signal values when light or radiation, at</u>

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which one of the pixel signals is at the saturation level, is projected on said detector, are a maximum which can be taken as the signal value.

10. (original): A solid-state detector which detects visible light or radiation and obtains pixel signals each representing a signal value of each a pixel comprising:

a_correcting means which determines the a_greatest pixel signal value from output pixel signals from said detector when light or radiation is projected on said detector at a level at which any one of the output pixel signals of said detecting elements detector before the correction is at a level lower than the a_saturation level is projected on said detector, and corrects the output pixel signals output from said detector so that the signal value of each of the pixel signals exceeds is set at a value which is equal to or greater than said greatest pixel signal value.

- 11. (new): The pixel signal correction method of claim 1, wherein the correction includes an offset correction and a gain correction to the output pixel signal to obtain the signal value of each pixel.
- 12. (new): The pixel signal correction method of claim 2, wherein the correction includes an offset correction and a gain correction to the output pixel signal to obtain the signal value of each pixel.

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13. (new): The pixel signal correction device of claim 3, wherein the correction includes

an offset correction and a gain correction to the output pixel signal to obtain the signal value of

each pixel.

14. (new): The pixel signal correction device of claim 4, wherein the correction includes

an offset correction and a gain correction to the output pixel signal to obtain the signal value of

each pixel.

15. (new): The method of claim 1, further comprising log conversion of corrected output

pixel signals.

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AMENDMENTS TO THE DRAWINGS

Applicant is submitting four new informal drawings including figures 6-9. Applicant submits that no new matter has been added.

Attachment: Four new Informal Drawings